

**What Is Claimed Is:**

1. A nano grinding mill comprising:

5 a lower turntable with a disc plate mounted on the lower portion thereof; and

upper and intermediate plates disposed above the lower turntable, each of the upper and intermediate plates having several tens to several thousands of pressure grinding rods mounted thereon, the upper plate being adapted to fix the  
10 pressure grinding rods and the intermediate plate being adapted to eccentrically rotate the pressure grinding rods.

2. A nano grinding mill, wherein the disc plate mounted on the lower turntable and a ball coupled to the end portion of each pressure grinding rod are replaceable with those made  
15 of a ceramic or diamond-coated material depending on the hardness of the material to be ground, so that grinding is conducted at the disc plate and the ball.

3. A nano grinding mill, wherein each of the several tens to several thousands of pressure grinding rods comprises  
20 a spring for adjusting the pressure applied thereto depending on the hardness of the material to be ground.